

**RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/532,258  
Source: PC  
Date Processed by STIC: 6/30/06

***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 06/30/2006

PATENT APPLICATION: US/10/532,258

TIME: 08:17:42

Input Set : A:\516231US.APP

Output Set: N:\CRF4\06302006\J532258.raw

3 <110> APPLICANT: JOUNG, KEITH J.  
 4 PABO, CARL  
 6 <120> TITLE OF INVENTION: CONTEXT SENSITIVE PARALLEL OPTIMIZATION OF ZINC FINGER  
 7 DNA BINDING DOMAINS  
 9 <130> FILE REFERENCE: 51588.62031 US  
 11 <140> CURRENT APPLICATION NUMBER: 10/532,258  
 12 <141> CURRENT FILING DATE: 2005-04-21  
 14 <150> PRIOR APPLICATION NUMBER: PCT/US03/034010  
 15 <151> PRIOR FILING DATE: 2003-10-23  
 17 <150> PRIOR APPLICATION NUMBER: 60/420,485  
 18 <151> PRIOR FILING DATE: 2002-10-23  
 20 <150> PRIOR APPLICATION NUMBER: 60/466,889  
 21 <151> PRIOR FILING DATE: 2003-04-30  
 23 <160> NUMBER OF SEQ ID NOS: 53  
 25 <170> SOFTWARE: PatentIn Ver. 3.3  
 27 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 25  
 29 <212> TYPE: PRT  
 30 <213> ORGANISM: Artificial Sequence  
 32 <220> FEATURE:  
 33 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 34 peptide  
 36 <220> FEATURE:  
 37 <221> NAME/KEY: MOD\_RES  
 38 <222> LOCATION: (2)..(5)  
 39 <223> OTHER INFORMATION: Variable amino acid and this region may encompass  
 40 2 to 4 residues  
 42 <220> FEATURE:  
 43 <221> NAME/KEY: MOD\_RES  
 44 <222> LOCATION: (7)..(18)  
 45 <223> OTHER INFORMATION: Variable amino acid  
 47 <220> FEATURE:  
 48 <221> NAME/KEY: MOD\_RES  
 49 <222> LOCATION: (20)..(24)  
 50 <223> OTHER INFORMATION: Variable amino acid and this region may encompass  
 51 3 to 5 residues  
 53 <400> SEQUENCE: 1  
 W--> 54 Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 55 1 5 10 15  
 57 Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His  
 58 20 25  
 61 <210> SEQ ID NO: 2  
 62 <211> LENGTH: 7

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63 <212> TYPE: PRT
64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
68     peptide
70 <400> SEQUENCE: 2
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72   1                               5
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76 <211> LENGTH: 7
77 <212> TYPE: PRT
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
82     peptide
84 <400> SEQUENCE: 3
85 Gln Gly Gly Asn Leu Val Arg
86   1                               5
89 <210> SEQ ID NO: 4
90 <211> LENGTH: 7
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
96     peptide
98 <400> SEQUENCE: 4
99 Gln Ala Ala Thr Leu Gln Arg
100  1                               5
103 <210> SEQ ID NO: 5
104 <211> LENGTH: 3
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
110     oligonucleotide
112 <400> SEQUENCE: 5
113 gcc                                     3
116 <210> SEQ ID NO: 6
117 <211> LENGTH: 3
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
123     oligonucleotide
125 <400> SEQUENCE: 6
126 gaa                                     3
129 <210> SEQ ID NO: 7
130 <211> LENGTH: 3
131 <212> TYPE: DNA

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132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
136     oligonucleotide
138 <400> SEQUENCE: 7
139 gca                                     3
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143 <211> LENGTH: 18
144 <212> TYPE: PRT
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147 <220> FEATURE:
148 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
149     peptide
151 <400> SEQUENCE: 8
152 Asp Arg Ser Ser Thr Arg Gln Gly Gly Asn Val Arg Gln Ala Ala Thr
153   1           5           10           15
155 Gln Arg
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 9
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
166     oligonucleotide
168 <400> SEQUENCE: 9
169 gcagaagcc                             9
172 <210> SEQ ID NO: 10
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174 <212> TYPE: PRT
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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182 Arg Lys Asp Ser Val Arg Gln Ser Gly Asp Arg Arg Asp Cys Arg Asp
183   1           5           10           15
185 Ala Arg
189 <210> SEQ ID NO: 11
190 <211> LENGTH: 9
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
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198 <400> SEQUENCE: 11
199 gccgcagtg                             9
202 <210> SEQ ID NO: 12
203 <211> LENGTH: 18
204 <212> TYPE: PRT

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205 <213> ORGANISM: Artificial Sequence  
 207 <220> FEATURE:  
 208 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 209 peptide  
 211 <400> SEQUENCE: 12  
 212 Ala Ser Ala Asp Thr Arg Asn Arg Ser Asp Ser Arg Thr Ser Ser Asn  
 213 1 5 10 15  
 215 Lys Lys  
 219 <210> SEQ ID NO: 13  
 220 <211> LENGTH: 9  
 221 <212> TYPE: DNA  
 222 <213> ORGANISM: Artificial Sequence  
 224 <220> FEATURE:  
 225 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 226 oligonucleotide  
 228 <400> SEQUENCE: 13  
 229 gatgctgca 9  
 232 <210> SEQ ID NO: 14  
 233 <211> LENGTH: 25  
 234 <212> TYPE: DNA  
 235 <213> ORGANISM: Artificial Sequence  
 237 <220> FEATURE:  
 238 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 239 oligonucleotide  
 241 <400> SEQUENCE: 14  
 242 ttttcgacac gcagaagccc attac 25  
 245 <210> SEQ ID NO: 15  
 246 <211> LENGTH: 25  
 247 <212> TYPE: DNA  
 248 <213> ORGANISM: Artificial Sequence  
 250 <220> FEATURE:  
 251 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 252 oligonucleotide  
 254 <400> SEQUENCE: 15  
 255 ttttcgacaa gccgcagtgg attac 25  
 258 <210> SEQ ID NO: 16  
 259 <211> LENGTH: 25  
 260 <212> TYPE: DNA  
 261 <213> ORGANISM: Artificial Sequence  
 263 <220> FEATURE:  
 264 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 265 oligonucleotide  
 267 <400> SEQUENCE: 16  
 268 ttttcgacac gatgctgcat attac 25  
 271 <210> SEQ ID NO: 17  
 272 <211> LENGTH: 25  
 273 <212> TYPE: DNA  
 274 <213> ORGANISM: Artificial Sequence  
 276 <220> FEATURE:

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277 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
278     oligonucleotide
280 <400> SEQUENCE: 17
281 ttttgacggt gcgtgggcgg ttcac                                     25
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285 <211> LENGTH: 18
286 <212> TYPE: PRT
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
291     peptide
293 <400> SEQUENCE: 18
294 Asp Ser Pro Thr Arg Arg Gln Gly Ala Asn Arg Arg Gln Ala Asn Thr
295   1             5             10             15
297 Gln Arg
301 <210> SEQ ID NO: 19
302 <211> LENGTH: 18
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
308     peptide
310 <400> SEQUENCE: 19
311 Asp Ser Pro Thr Arg Arg Gln Asn Thr Asn Thr Arg Gln Ala Asn Thr
312   1             5             10             15
314 Gln Arg
318 <210> SEQ ID NO: 20
319 <211> LENGTH: 18
320 <212> TYPE: PRT
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
325     peptide
327 <400> SEQUENCE: 20
328 Asp Ser Pro Thr Arg Arg Gln Asn Thr Asn Thr Arg Gln Ala Asn Thr
329   1             5             10             15
331 Gln Arg
335 <210> SEQ ID NO: 21
336 <211> LENGTH: 18
337 <212> TYPE: PRT
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340 <220> FEATURE:
341 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
342     peptide
344 <400> SEQUENCE: 21
345 Asp Glu Ser Thr Arg Arg Gln Gly Pro Asn Arg Arg Gln Arg Asn Thr
346   1             5             10             15
348 Gln Arg
352 <210> SEQ ID NO: 22

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/532,258

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Input Set : A:\516231US.APP

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. ~~2,3,4,5,7,8,9,10,11,12,13,14,15,16,17,18,20,21,22,23,24~~

VERIFICATION SUMMARY

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TIME: 08:17:43

Input Set : A:\516231US.APP

Output Set: N:\CRF4\06302006\J532258.raw

L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
M:341 Repeated in SeqNo=1